We claim:

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A process for preparing polyamides, which comprises polymerizing starting monomers or starting oligomers in the presence of at least one compound of the formula (I)

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R

 \mathbb{R}^1

is a C_1-d_{20} aliphatic saturated hydrocarbon R^8 which bears 1-4 identical or different amide-forming groups R^7 ,

(I)

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is H, q_1 - C_{20} -alkyl, cycloalkyl, benzyl or OR⁶, where

R⁷

R⁶ is H, C₁-C₂₀-alkyl, cycloalkyl or benzyl, is selected from the group consisting of -(NHR), carboxyl and carboxylic acid derivatives, R⁹ being H, alkyl having from 1 to 8 carbon atoms, cycloalkyl having from 3 to 10 carbon atoms or alkylene having

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 R^2 , R^3 , R^4 and R^5 are independently C_1 - C_{10} -alkyl, is a natural number greater than 1,

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the piperidine derivatives attached to R being identical or different with regard to the substituents, meaning R^1 , R^2 , R^3 , R^4 and R^5 ,

from 2 to 20 carbon atoms,

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wherein the compound of the formula I is added to the starting monomers or to the polymerizing reaction mixture and becomes attached to the polyamide through reaction of at least one of the amide-forming groups R⁷.

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2. A process as claimed in claim 1, wherein the piperidine derivatives attached to R are identical with regard to the substituents, meaning R^1 , R^2 , R^3 , R^4 and R^5 .

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- 5 3. A process as claimed in claim 1/er 2, wherein R^1 is H.
 - 4. A process as claimed in any of claims 1 to 3, wherein the R^2 , R^3 , R^4 and R^5 substituents on any one piperidine derivative are identical.

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- 5. A process as claimed in any of claims 1 to 4, wherein R^2 on any one piperidine derivative is methyl.
- 6. A process as claimed in any of claims 1 to 5, wherein n is 2.

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7. A process as claimed in any of claims 1 to 6, wherein R is a group of the formula - NH $-R^8$ - NH - where R^8 is alkylene having from 1 to 20 carbon atoms.

20 8. A process as claimed in any of claims 1 to 2, wherein R is $- NH - CH_2 - CH_2 - CH_2 - CH_2 - CH_2 - NH - .$

9. A process as claimed in any of claims 1 to 8, wherein the

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pigment.

10. The use of a compound (I) as set forth in any of claims 1 to

—9 for preparing polyamides.

polymerizing is carried out in the presence of at least one

30 11. A polyamide obtainable by a process as claimed in any of claims 1 to 9.

July 35

- 12. The use of a polyamide as claimed in claim 11 for preparing filaments, fibers films, sheetlike structures and moldings.
- 13. Filaments, fibers, films, sheetlike structures and moldings comprising a polyamide as claimed in claim 11.

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